

Honeywell CONFIDENTIAL  
ATTORNEY-CLIENT PRIVILEGED

Invention Record  
(Docket) No.:  
H0006399

Origin Date:

REDACTED

Attorney(s): Beninati, John -

Title: Wireless Video Camera with pre-alarm buffer.

Inventor: Addy, Kenneth L  
Address:  
Phone:  
Citizenship:

SSN:

County:

Supervisor:

1. Briefly describe the technical or commercial problem or need that this invention is intended to solve.  
It is desirable to use wireless video cameras in security installations to record and transmit alarm events for both alarm verification (before police are dispatched) and for potential evidence in cases of crime. When using wired i.e. powered cameras this is simply achieved by continuously writing video frames into a circular buffer, so that if an alarm sensor associated with each camera detects an alarm event, the buffer is stopped at a certain point in order to record some pre and post alarm events. In the case of a wireless, battery powered camera, it is not possible to continuously write to video memory due to power constraints.

2. Briefly describe how this invention solves the problem or meets the need.  
The invention solves the problem by including a low power receiver in each camera, so that an alarm event at any sensor on the security system wakes all cameras from a low current standby mode, into a higher current, video recording mode for a predefined period. If the sensor associated with a particular camera subsequently detects an alarm, the video buffer of that camera is stopped in the same way as the wired case. Thus a perimeter sensor on a door or window for example, sends a wireless message which is received by all cameras, which then begin recording video images into a video memory buffer. Of course the initiating message from the first sensor to detect an alarm condition is also sent to the alarm system control panel for processing - as is normal in existing wireless security products.

3. Describe how to make and use the invention. Please indicate which embodiment(s) are preferred and describe the best way known to you to practice the invention. Attach relevant documents. (If the invention is a device or process, please provide a drawing or flow chart.) (If you are unfamiliar with the contents and preparation of a patent application, please refer to the Guidelines for the Preparation of Invention Disclosures.

Note that the camera could operate in a couple of different ways. Firstly as described, the camera always switches to active mode by an incoming RF message from an intrusion sensor, or preferably, the camera would be in one of two states, firstly when the system is armed, an RF message from the control panel sets the camera into state that can be activated by a sensor, or secondly an inactive state where alarm sensors would not activate the camera, these two states correspond respectively to the armed or disarmed states of the control panel itself. The low current receiver could be a continuously-on superregenerative or equivalent low current design, or could be a synchronized, "paging" type of receiver. The novelty in this invention is that sensors on a perimeter of a protected space can immediately activate cameras elsewhere in the protected space to enable pre-alarm video recording in a battery powered RF camera with local video buffer. Additionally, it should be noted that the video storage could be local to the camera or could be remote if the Wireless camera transmits

video upon activation.  
Document(s):

---

4(a). To the best of your recollection what is the earliest date on which the invention was conceived? Who conceived the invention? Attach documents which evidence the foregoing.

Conception Date:

Who conceived it?: Ken Addy

Document(s): **REDACTED**

---

4(b). Is there a non-inventor who witnessed the conception? If so, please identify him/her and attach any documents which evidence the witnessing.

no

Witness Name:

Witness Phone: First Practice Documents:

---

5(a). To the best of your recollection, what is the earliest date on which the invention was reduced to practice (i.e. made)? Who reduced the invention to practice. Attach documents which evidence the foregoing. If no reduction to practice, type "n/a".

First Practice Documents:

First Practice Date: n/a

Who reduced it to practice?:

---

5(b). Is there a non-inventor who corroborated the reduction to practice? If so, please identify him/her, the corroborating activity (i.e., over-the-shoulder corroboration or repeating the experiment), and the date of the activity. Attach documents which evidence the foregoing.

Non-inventor corroborator?:

First Corroborator Name:

First  
Corroborator  
Phone:

First Practice

Corroboration Date:

First Practice Corroborator Activity:

Document(s) related to corroboration event:

---

5(c). For each example of the invention and each comparative example on which you intend to rely in the patent application, please indicate when the example was generated, who conducted the experiment and where this example is recorded (e.g., volume, page and author or laboratory notebook) and attach a copy of these records. If no example available, type "n/a".

Example(s):

Example Date:

Who conducted the experiment?:

Where is example recorded?:

---

6(a). Did this invention arise in a program that is funded in whole or part by the U.S. Government or another company, or any entity other than Honeywell?

No

---

6(b). If so, please identify the program (including government contract number, if applicable) and the entity sponsoring the program and provide a copy of any agreement between the parties concerning the program.

Outside Funding Program:

Contract Number (if applicable):

Outside Funding Entity:

Document(s) related to funding agreement:

---

7(a). To your knowledge, is this invention subject to any agreement between Honeywell and a third party (e.g., a secrecy agreement, license agreement, joint development agreement, etc.)?

---

7(b). If so, please identify the agreement and the other party and attach a copy of the agreement if one is available.

Third party agreement ID:

Third party name:

Document(s) related to any third party agreement:

---

8. You have a duty to disclose to the U.S. Patent and Trademark Office all relevant prior art of which you are aware. Please list all such prior art (e.g., patents, publications, brochures, Honeywell and third-party products) known to you. If a prior art search has been conducted, it must be included. Briefly indicate how this invention is different from the prior art. See 1 and 2 above.

List of prior art:

How invention is different from the prior art:

---

9(a). Has the product or process which is the subject of this invention disclosure been disclosed, sold or offered for sale to anyone outside of Honeywell or to the general public.

---

9(b). If so, when and to whom was it disclosed, sold or offered for sale? If it was disclosed, was a secrecy agreement in place? Attach documents which evidence the sale or offer for sale.

---

Date it was disclosed:

Whom disclosed to:

Disclosure Sales Agreement?:

Document(s) which evidence the sale or offer for sale:

---

9(c). Does the business intend to disclose, sell or offer to sell the invention to anyone outside of Honeywell or to the general public in the near future? If so, to whom and when is this disclosure, sale or offer for sale planned?

---

For whom are future sales planned:

Date future sale is planned:

---

10(a). Does this invention relate to any other: (i) issued patents, (ii) pending patent applications, or (iii) previously submitted invention disclosures, of Honeywell?

10(b). If so, please identify the related matter and indicate whether this is an improvement on an earlier invention:  
Other patents related matter is:

Is this an improvement?:

11. Please specify the product(s) to which this invention disclosure relates.

12. Please indicate keywords for identifying this invention disclosure.

Witness  
Name: \_\_\_\_\_

Witness  
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Inventor  
Name: \_\_\_\_\_

Inventor  
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Inventor  
Name: \_\_\_\_\_

Inventor  
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Inventor  
Name: \_\_\_\_\_

Inventor  
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Inventor  
Name: \_\_\_\_\_

Inventor  
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Inventor  
Name: \_\_\_\_\_

Inventor  
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Inventor  
Name: \_\_\_\_\_

Inventor  
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Inventor  
Name: \_\_\_\_\_

Inventor  
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Send to:  
John - Beninati